

Date: Thu, 2 Dec 93 04:30:42 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V93 #120  
To: Ham-Homebrew

Ham-Homebrew Digest                      Thu, 2 Dec 93                      Volume 93 : Issue 120

Today's Topics:

                    sw-radio coils...question.  
                    Telephone Interface Circuit ?  
                    TMS32010

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: Tue, 30 Nov 1993 18:21:50 GMT  
From: swrinde!sgiblab!sgigate.sgi.com!olivea!news.bu.edu!att!cbnewsml  
jeffj@network.ucsd.edu  
Subject: sw-radio coils...question.  
To: ham-homebrew@ucsd.edu

In article <2649@arrl.org> zlau@arrl.org (Zack Lau) writes:  
>In rec.radio.amateur.homebrew, st92ba44@dunx1.ocs.drexel.edu ( antonio gatta)  
writes:

>> I'm not sure if this is the right place to ask but the title seemed  
>> appropriate (and I couldn't find a faq). Anyhows, I'm working on  
>> a crystal shortwave radio which requires a t-50-2 toroid core onto  
>> which the coil is wound. I'm wondering if a straight (bar) ferrite  
>They are similar in that both are used to increase the inductance of a  
>coil. However, type 2 iron powder of 10, while ferrite materials usually  
>have a much higher permeability (though some VHF materials have a similar  
>permeability). Ferrites typically have higher loss, though I've seen  
>inductors wound on type 67 material with low loss. Many will have 1 to  
>2 magnitudes more loss. Ferrites are often less frequency stable.

I was wondering about the differences between the various core types. In some applications they call for T-50-2 and others they call for T-50-6. A lot of times it looks like they are using what they have on hand and you could substitute a T-50-2 for a T-50-6 or vice versa. Is the 2 or the 6 extender more of a indication of the amount of power the toroids can handle? As I am just getting started in doing some of my own homebrewing it would be nice to know that I can use a T-50-2 that I have on hand rather than having to wait for mailorder to show up with a T-50-6. The applications I am working with are VFO's, output filters and matching impedances. Could someone enlighten me on toroids?

73!

Jeff

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Jeff Jones AB6MB | Vote out those who voted for the North American  
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Date: Wed, 1 Dec 1993 09:53:17 GMT  
From: news.cerf.net!pagesat!netsys!agate!howland.reston.ans.net!ee.und.ac.za!  
hippo.ru.ac.za!pukrs7.puk.ac.za!pc2.puk.ac.za!itbkl@network.ucsd.edu  
Subject: Telephone Interface Circuit ?  
To: ham-homebrew@ucsd.edu

Hi.

I am looking for examples of circuits that will allow me to interface any audio based equipment (say a PC's soundblaster card or audio from HF rig, etc.) to the telephone line.

The circuit should have all the lightning protection, isolation, etc. that is sufficient for the Telco to pass an acceptance test.

I have in mind a circuit with the following interfaces :

- a) connection to telephone line.
- b) audio out
- c) audio in.
- d) ring detect (say 5v out = ring)
- e) go off-hook (say +5V means the circuit goes off-hook and puts the audio through).

I am shure there must be some circuits available somewhere ? What do you guys use for phone patching ? (Not legal over here).

Thanks.

Please send any replies via Email.

Keith  
ZS6TW

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Date: Tue, 30 Nov 1993 16:41:04 GMT  
From: swrinde!sgiblab!news.kpc.com!kpc!nat@network.ucsd.edu  
Subject: TMS32010  
To: ham-homebrew@ucsd.edu

Hi,

Anyone know of a place where one could buy the TI TMS32010 DSP chip in single quantities? Any idea how expensive this chip is? I know this chip is at least 8 years old. My adviser in graduate school had a tms32010 system development kit from TI and I implemented many filters on it. While we are on it does TI still sell the development kit for the tms32010 ? The kit had a build in assembler and all you had to do was to download the assembly code in ascii from a host machine. The development board intercepted the incoming stream and assembled it on the fly. On the whole it was a neat set up.

Thanks in advance.

Nat.

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End of Ham-Homebrew Digest V93 #120

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